

CLAIMS

What is claimed is:

1. A reproducing apparatus comprising:
an audio visual (AV) reproducing engine which decodes AV data; and
an enhanced audio visual (ENAV) engine, which includes player language information selecting one among a plurality of ENAV applications, each of which includes substantially similar contents and is made with a different language from the other ENAV applications, and interprets and executes the selected ENAV application with reference to the player language information in order to reproduce the AV data in an interactive mode.
2. The reproducing apparatus of claim 1, wherein the player language information is stored as a system parameter (SPRM).
3. The reproducing apparatus of claim 1, further comprising:
a reader reading the ENAV applications from an information storage medium, wherein the ENAV engine selects the one ENAV application with reference to the player language information and language information indicating a language of contents contained in the ENAV applications, the language information recorded in a startup file to be first read when the interactive mode is selected.
4. The reproducing apparatus of claim 1, further comprising:
a reader reading the ENAV application from an information storage medium, wherein the ENAV engine selects the one ENAV application with reference to a system parameter SPRM 0 set according to a DVD-Video standard and language information indicating a language of contents contained in the ENAV applications, the language information recorded in a startup file to be first read when the interactive mode is selected.
5. The reproducing apparatus of claim 3, wherein the information storage medium stores the language information and the plurality of ENAV applications, each of which includes the substantially similar contents and is made with the different language from the other ENAV applications, and the ENAV engine compares the language information with the player language information and selects one among the plurality of ENAV applications.

6. The reproducing apparatus of claim 5, wherein the ENAV engine compares the language information with the player language information stored in a system parameter table stored in the reproducing apparatus.

7. The reproducing apparatus of claim 5, wherein the ENAV engine compares the language information with a system parameter SPRM 0 set according to a DVD-Video standard in the reproducing apparatus.

8. The reproducing apparatus of claim 5, wherein the ENAV engine parses language information recorded using a “name” property and a “value” property in an element that stores a condition selecting a linked loading information file, included in an element that links a loading information file included in a corresponding one of the ENAV applications, and compares the language information with a system parameter SPRM 0 set according to a DVD-Video standard in the reproducing apparatus.

9. The reproducing apparatus of claim 5, wherein the language information comprises elements that each link a loading information file included in a corresponding one of the ENAV applications, and the ENAV engine parses the language information.

10. The reproducing apparatus of claim 9, wherein the element comprises a condition element storing a selection criterion to select one among the ENAV applications based on the ENAV engine parsing the language information.

11. The reproducing apparatus of claim 9, wherein the language information comprises a “name” property and a “value” property in a condition element that stores a condition selecting a linked loading information file included in the element linking the loading information file.

12. The reproducing apparatus of claim 9, wherein the language information is recorded using a “name” property and a “value” property in the element linking the loading information file.

13. The reproducing apparatus of claim 5, wherein the ENAV engine parses language information recorded in a language code with two characters according to an ISO 639 standard.

14. An enhanced audio visual reproducing apparatus, comprising:
a reader which reads audio visual (AV) and interactive data from an optical disk;
a memory storing a system parameter table (SPRM) storing DVD video system parameters including player language information;
an AV reproducer which reproduces the AV data read from the optical disk; and
an ENAV engine selecting the read interactive data to reproduce from the optical disk corresponding to the AV data when the optical disk is reproduced in an interactive mode based on the player language information.

15. The reproducing apparatus of claim 14, wherein the ENAV engine buffers the selected interactive data corresponding to the AV data to ensure seamless reproduction.

16. The reproducing apparatus of claim 14, wherein the AV reproducer and the ENAV engine interface through an Application Program Interface (API).

17. The reproducing apparatus of claim 14, wherein when the optical disk is reproduced in the interactive mode the ENAV engine reads a startup file from the optical disk and selects corresponding interactive data from the optical disk based on the startup file.

18. The reproducing apparatus of claim 17, wherein the ENAV engine parses language information from the startup file and compares the parsed language information with the player language information thereby selecting a corresponding loading file indicating interactive data files to be buffered.

19. The reproducing apparatus of claim 14, wherein the interactive data comprises a plurality of enhanced audio visual (ENAV) data in a plurality of languages, respectively.

20. The reproducing apparatus of claim 19, wherein the ENAV data is selected automatically based on the SPRM.

21. The reproducing apparatus of claim 20, wherein the ENAV data is selected automatically based on an SPRM 0 table entry.

22. The reproducing apparatus of claim 20, wherein the ENAV data is selected automatically based on an SPRM 16 table entry.

23. The reproducing apparatus of claim 20, wherein the ENAV data is selected automatically based on an SPRM 18 table entry.

24. The reproducing apparatus of claim 20, wherein the ENAV data is selected automatically based on an SPRM 21 table entry.